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Robert Peccia &
Associates
Milk River Coal
Field abandoned
mine reclamation
plan

Milk River Coal Field
Abandoned Mine Reclamation Plan

FINAL REPORT

IFB 4804 - G

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FINAL REPORT

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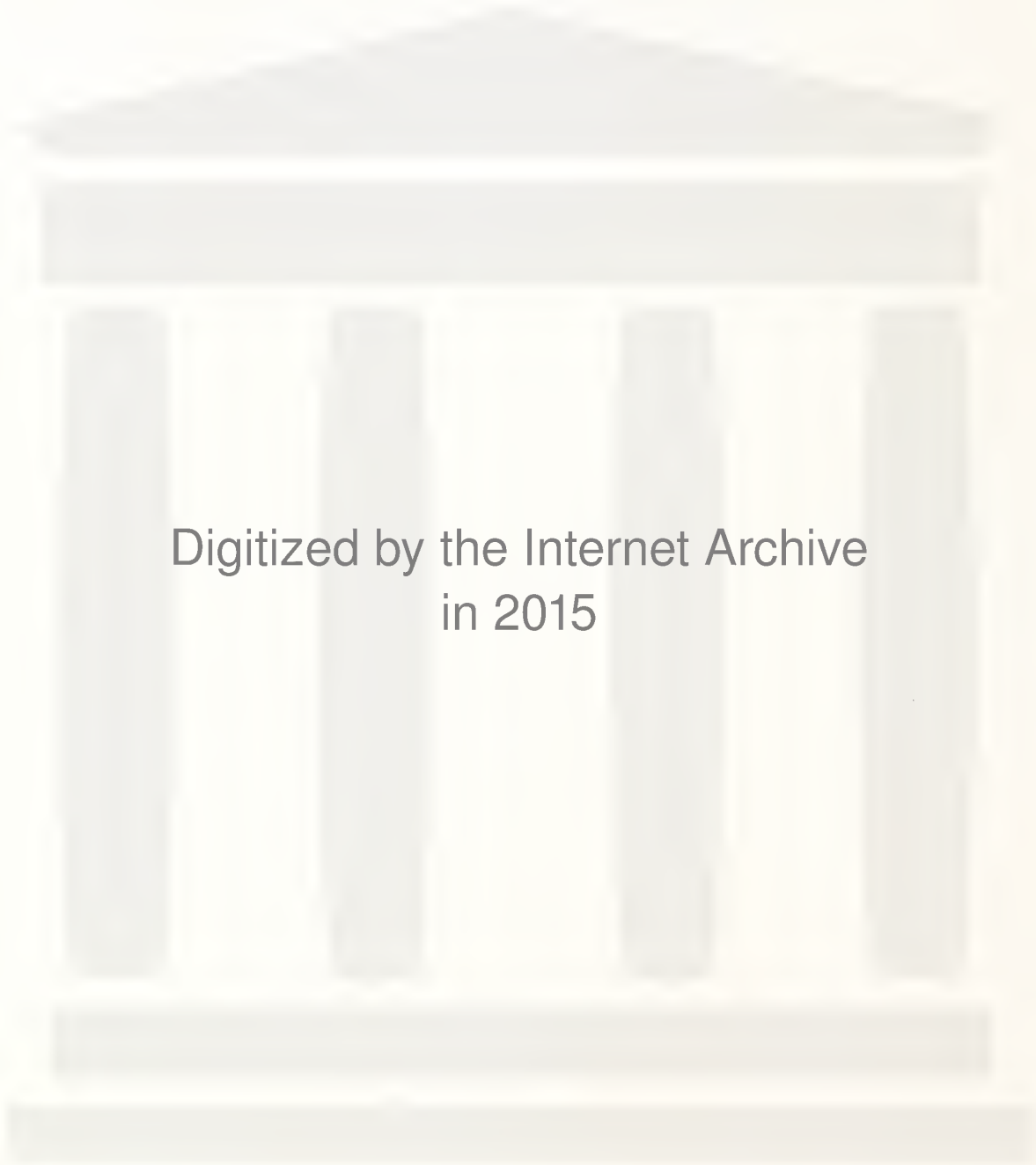
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MILK RIVER COAL FIELD
ABANDONED MINE RECLAMATION PROJECT

INTRODUCTION

The construction phase of the reclamation activities performed at the Perkins-Milk River, Rader-Redekop, and Mashke-Fox Mines in Blaine County began on July 18, 1985, and was completed on October 2, 1985. This reclamation work was performed under the State of Montana Invitation for Bid 4804-G.

The reclamation plan was prepared by OEA Research of Helena and presented to the Department of State Lands as a report outlining the reclamation alternatives for the mine sites. Robert Peccia & Associates prepared the engineering plans and specifications from the reclamation plan and additional field work.

The plans and specifications were drawn up pursuant to the objectives established in Montana's Permanent Program Strip and Underground Mine Reclamation Rules and Regulations, specifically ARM 26.4.1235(3). The primary criteria used for preparing the reclamation plans were the protection of human life, health and safety, protection of the environment, abatement of adverse social and economic impacts of past coal mining, and the improvement of the use of natural resources.

Robert Peccia and Associates provided quality control inspection services for all of the work executed under IFB 4804-G.

The contract documents provided for each of the work items listed to be bid on a lump sum basis. The contract stipulated the Contractor would have to perform the work in a manner sufficient to fulfill the intent of the contract; the quantities supplied in the plans and specifications were identified as approximate, and the Contractor was responsible for determining the amount of work the intent of the contract entailed.

Attachment 1 shows the bid items covered under the contract schedule, lists the approximate quantities, and shows the pertinent information for the successful bidder and other bidders on the contract.

Site 1

The Dehl, Redekop and Rader Mines are located on the Sorenson and Peterson ranches about 12 miles southwest of the town of Chinook. Reclamation of the sites included excavating, hauling and placing of coal mine waste material, filling several subsidence areas, removing and disposing mining related debris, leveling and filling a foundation, closure

of two adits and two drifts, closure of one shaft, reconstructing drainage channels, reshaping slopes, spreading lime, topsoiling, fertilizing, seeding, mulching and fencing

Site 2

The Mashke-Fox Mine is located about 15 miles west and south of the town of Chinook on the Haugen ranch. Reclamation of this site included filling two air vents and some small subsidence area with rock, topsoiling over these areas, and seeding and fertilizing these areas.

Site 3

The Perkins-Milk River Mine sites are located on the Pyetter ranch about seven miles west and north of the town of Chinook. Reclamation of the sites included excavating, hauling and placing of coal mine waste material, filling subsidence areas, excavation and closure of two shafts, placement of a steel and concrete cone in a shaft, removing and disposing of mining related waste, closure of several adits and opened drifts, reshaping slopes, spreading lime, topsoiling, fertilizing, seeding and mulching.

Discussion

Montgomery Construction of Hilger, Montana, was the lowest bidder for the work outlined with a bid of $52,575.00. The Agreement for the project was dated July 10, 1985. The Notice to Proceed was dated July 18, 1985; the contract period was 45 consecutive calendar days.

The Contractor commenced work on July 18, 1985. All of the work except seeding and fertilizing was completed on October 2, 1985.

The major equipment mobilized to the site was:

(1) D8 Cat bulldozer,

(2) D7 Cat bulldozer with pulley blade control,

(3) 955 Cat Rubber-tired front-end loader,

(4) DW21 Cat Water Wagon,

and (5) Terex 18 cubic yard push-pull scraper.

The Contractor also utilized an agricultural centrifugal fertilizer spreader to spread lime, a manure spreader to spread mulch, and a Bobcat for placing the fence.

The work items at Site 1 included excavation of approximately 1575 cubic yards of spoils material, reconstruction of approximately 700 linear feet of fencing and reclamation of approximately 2.0 acres.

The major tasks at Site 1 were moving spoils piles (piles #1, #2, #3, and #4) into the excavated deposition areas and adit cuts. At this site only one pile was moved with the scraper, all other piles were moved with the bulldozers.

Some problems were encountered in removing the pile in the wet coulee (pile #2) because the machinery became stuck several times. This area was topsoiled because it would have been very difficult to remove all of the spoils material.

The work items at Site 3 included excavation of approximately 2000 cubic yards of spoils material and ash, placement of a steel and concrete cone, and reclamation of about 9.5 acres.

The original contact plans and specifications provided for two deposition areas at the East Perkins Mine. After construction started, the two deposition areas were consolidated into the western site; this field change allowed for the disturbance of a smaller area for spoils deposition. The work on the gas line at the East Perkins Mine was accomplished without removing or replacing the existing gas line. Several small spoils piles in the Coulee east of the East Perkins Mine, and not shown on the plans, were removed and the disturbed areas topsoiled.

A change order was issued for the removal of the spoils material in the large "U" shaped deposition area one-fourth of a mile north of the East Perkins Mine location. This material was originally specified to be mixed in place with topsoil, but after excavation of some of the material it was found to be deeper than originally anticipated. This material was placed at the spoils deposition site at the western East Perkins Mine. The cost of this change order was $1,190.00.

The concrete and steel cone provided an excellent seal for the steel lined mine at the Milk River Mine. However, an equally successful seal may have been achieved at a cheaper price if other means, such as filling with riprap, were used.

The final cost of the work completed under IFB 4804-G was $53,765.

The Contractor, Montgomery Construction, did an excellent job of performing the tasks outlined in the original contract plans and specifications.

ATTACHMENT 1

Payment Items
for
Milk River Abandoned Mine Reclamation Project

Montgomery Construction
Hilger, Montana
Lic. # A 6290

ITEM	DESCRIPTION	QUANTITY	/UNITS	BID PRICE	UNIT PRICE
1	Debris Removal	1.0	Lump Sum	$5,000.00	$5,000.00
2	Excavation and Embankment	3575.0	Cu. Yd.	$17,875.00	$5.00
3	Site Grading	55225.0	Sq. Yd.	$5,000.00	$0.09
4	Lime Application	12.3	Tons	$3,000.00	$243.90
5	Seeding and Fertilizing	11.5	Acres	$11,000.00	$956.52
6	Stream Channel Construction	700.0	Lin. Ft.	$2,100.00	$3.00
7	Gas Line Relocation	230.0	Lin. Ft.	$2,000.00	$8.70
8	Closure of 6 Shafts and 7 Adits	1.0	Lump Sum	$4,500.00	$4,500.00
9	Fencing	1050.0	Lin. Ft.	$2,100.00	$2.00
	SUBTOTAL BASE PAYMENTS:			$52,575.00	
	CHANGE ORDER #1:			$1,190.00	
	SUBTOTAL CHANGE ORDER PAYMENTS:			$1,190.00	
	TOTAL PAYMENTS IFB 4804-G:			$53,765.00	

MILK RIVER COAL FIELD AMR BID TABULATIONS

			CONTRACTOR:	Willie Baxter Construction		Curtis Moxley Construction		Bezanson Construction		Montgomery Construction	
			LOCATION:	Billings		Chinook		Helena		Hilger	
			LIC. #:	A 4884		B 2213		A 6246		A 6290	
ITEM	DESCRIPTION	QUANTITY	UNITS	BID PRICE	UNIT PRICE	BID PRICE	UNIT PRICE	BID PRICE	UNIT PRICE	BID PRICE	UNIT PRICE
1	Debris Removal	1.0	Lump Sum	$8,500.00	$8,500.00	$9,800.00	$9,800.00	$2,000.00	$2,000.00	$5,000.00	$5,000.00
2	Excavation and Embankment	3575.0	Cu. Yd.	$11,500.00	$3.22	$18,000.91	$5.04	$14,300.00	$4.00	$17,875.00	$5.00
3	Site Grading	55225.0	Sq. Yd.	$10,045.00	$0.18	$8,028.03	$0.15	$2,761.00	$0.05	$5,000.00	$0.09
4	Lime Application	12.3	Tons	$3,075.00	$250.00	$5,062.10	$411.55	$6,500.00	$528.46	$3,000.00	$243.90
5	Seeding and Fertilizing	11.5	Acres	$15,250.00	$1,326.09	$5,226.40	$454.47	$14,926.00	$1,297.91	$11,000.00	$956.52
6	Stream Channel Construction	700.0	Lin. Ft.	$1,750.00	$2.50	$8,000.19	$11.43	$2,500.00	$3.57	$2,100.00	$3.00
7	Gas Line Relocation	230.0	Lin. Ft.	$2,300.00	$10.00	$2,125.08	$9.24	$600.00	$2.61	$2,000.00	$8.70
8	Closure of 6 Shafts and 7 Adits	1.0	Lump Sum	$8,775.00	$8,775.00	$8,502.20	$8,502.20	$7,475.00	$7,475.00	$4,500.00	$4,500.00
9	Fencing	1050.0	Lin. Ft.	$1,050.00	$1.00	$800.51	$0.76	$1,575.00	$1.50	$2,100.00	$2.00
	TOTAL BASE BID (Actual):			$62,245.00		$65,545.42		$52,637.00		$52,575.00	
	TOTAL BASE BID (Contractor):			$62,245.00		$65,545.42		$52,637.00		$52,575.00	

MILK RIVER COAL FIELD AMR BID TABULATIONS

		CONTRACTOR:	Shumaker Construction		Barber Excavating		John Pike Construction	
		LOCATION:	Great Falls		Belt		Chinook	
		LIC. #:	A 5199		B 2109		A 5055	
ITEM	DESCRIPTION	QUANTITY /UNITS	BID PRICE	UNIT PRICE	BID PRICE	UNIT PRICE	BID PRICE	UNIT PRICE
1	Debris Removal	1.0 Lump Sum	$11,450.00	$11,450.00	$9,949.00	$9,949.00	$10,000.00	$10,000.00
2	Excavation and Embankment	3575.0 Cu. Yd.	$15,600.00	$4.36	$18,725.00	$5.24	$10,360.00	$2.90
3	Site Grading	55225.0 Sq. Yd.	$7,000.00	$0.13	$5,522.00	$0.10	$8,130.00	$0.15
4	Lime Application	12.3 Tons	$6,150.00	$500.00	$2,500.00	$203.25	$1,600.00	$130.08
5	Seeding and Fertilizing	11.5 Acres	$13,800.00	$1,200.00	$11,500.00	$1,000.00	$10,060.00	$874.78
6	Stream Channel Construction	700.0 Lin. Ft.	$1,600.00	$2.29	$700.00	$1.00	$2,625.00	$3.75
7	Gas Line Relocation	230.0 Lin. Ft.	$1,380.00	$6.00	$1,000.00	$4.35	$1,300.00	$5.65
8	Closure of 6 Shafts and 7 Adits	1.0 Lump Sum	$9,500.00	$9,500.00	$4,700.00	$4,700.00	$15,135.00	$15,135.00
9	Fencing	1050.0 Lin. Ft.	$2,300.00	$2.19	$1,575.00	$1.50	$1,000.00	$0.95
	TOTAL BASE BID (Actual):		$68,780.00		$56,171.00		$60,210.00	
	TOTAL BASE BID (Contractor):		$68,700.00		$56,171.00		$60,210.00	